

FIG. 1 (PRIOR ART)

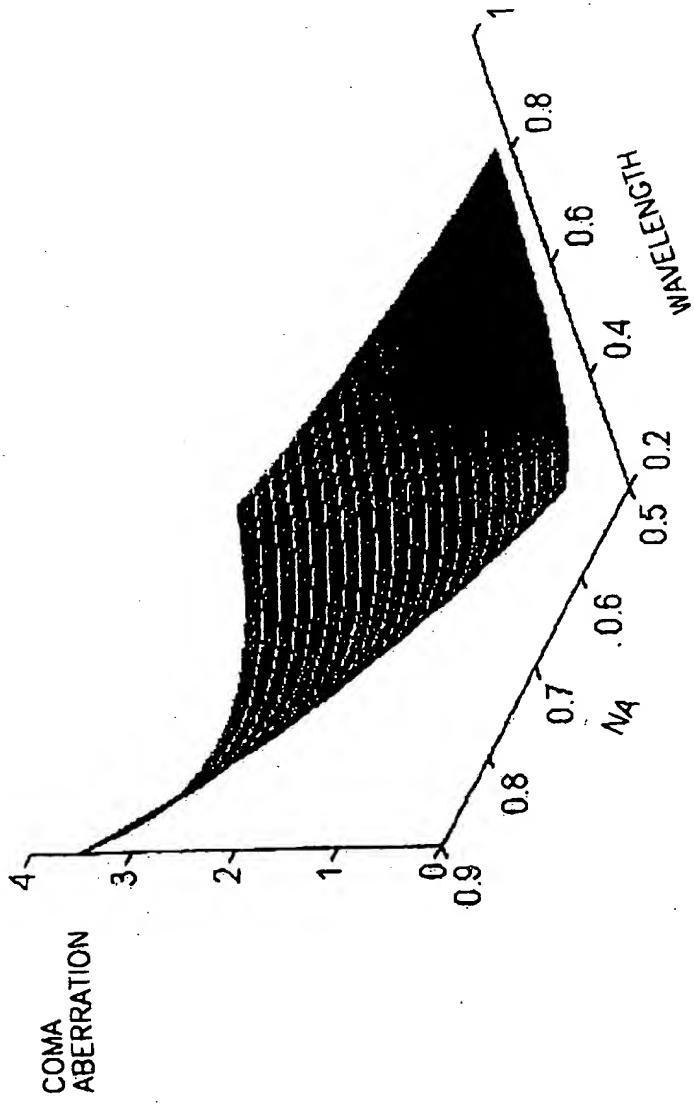


FIG. 2 (PRIOR ART)

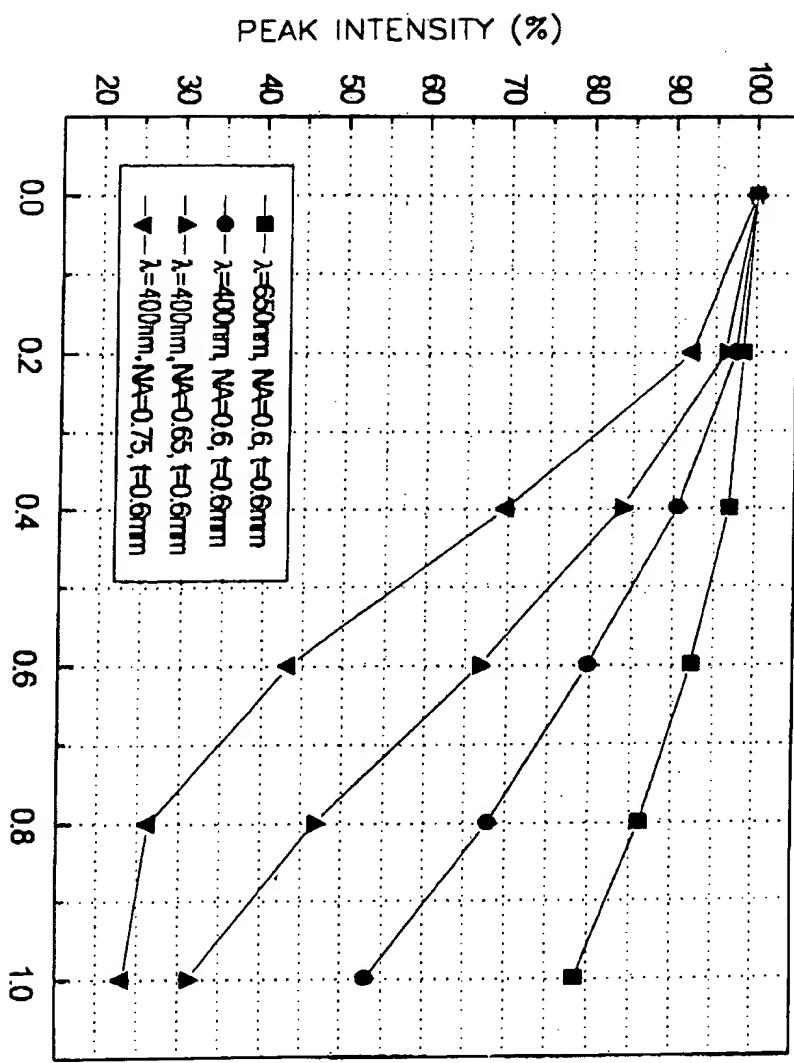


FIG. 3 (PRIOR ART)

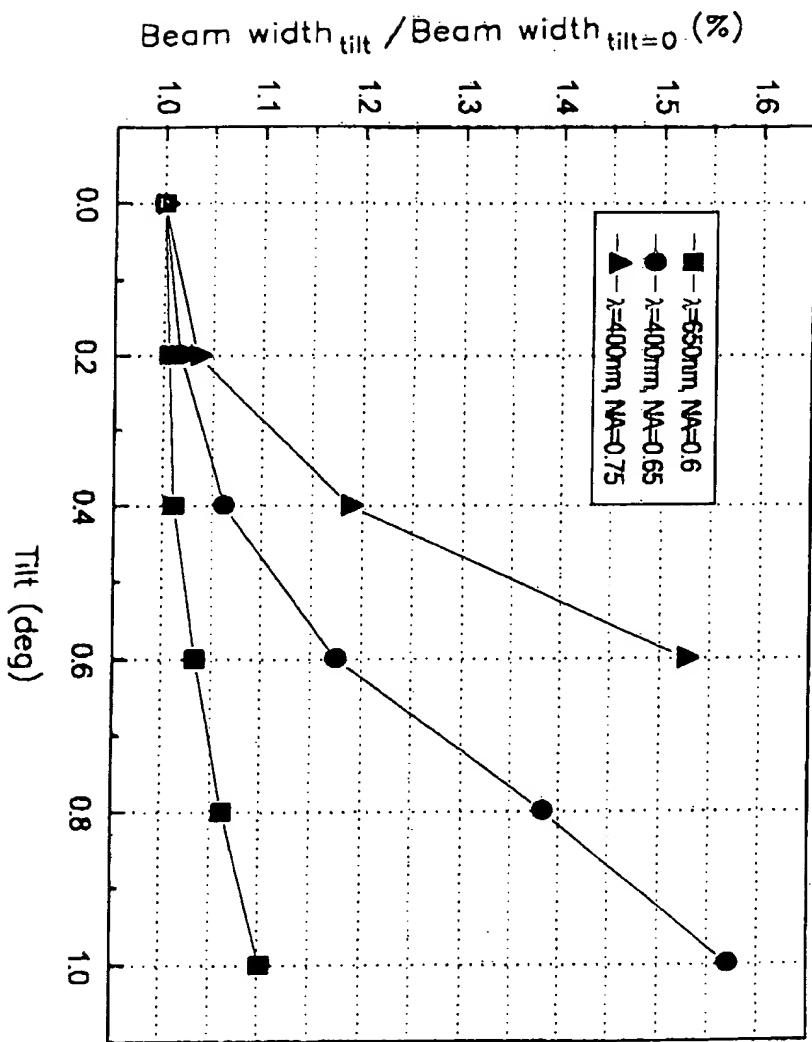


FIG. 4 (PRIOR ART)

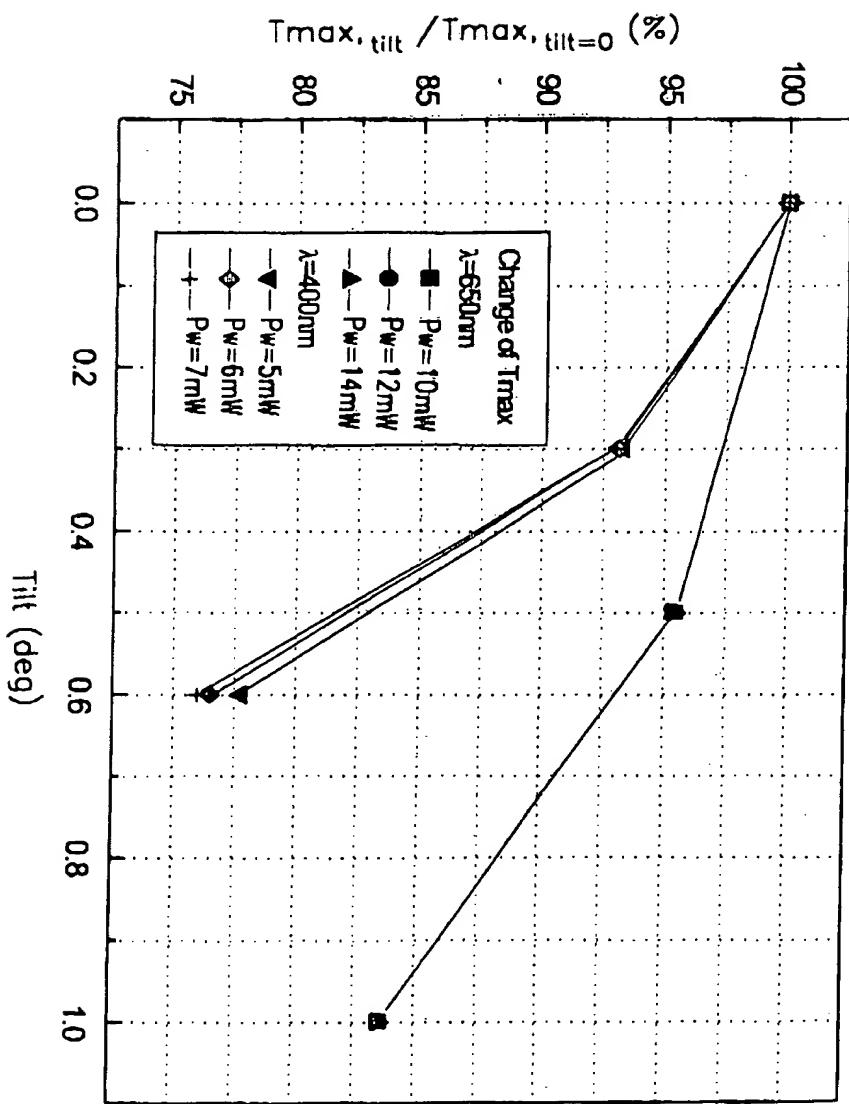


FIG. 5 (PRIOR ART)

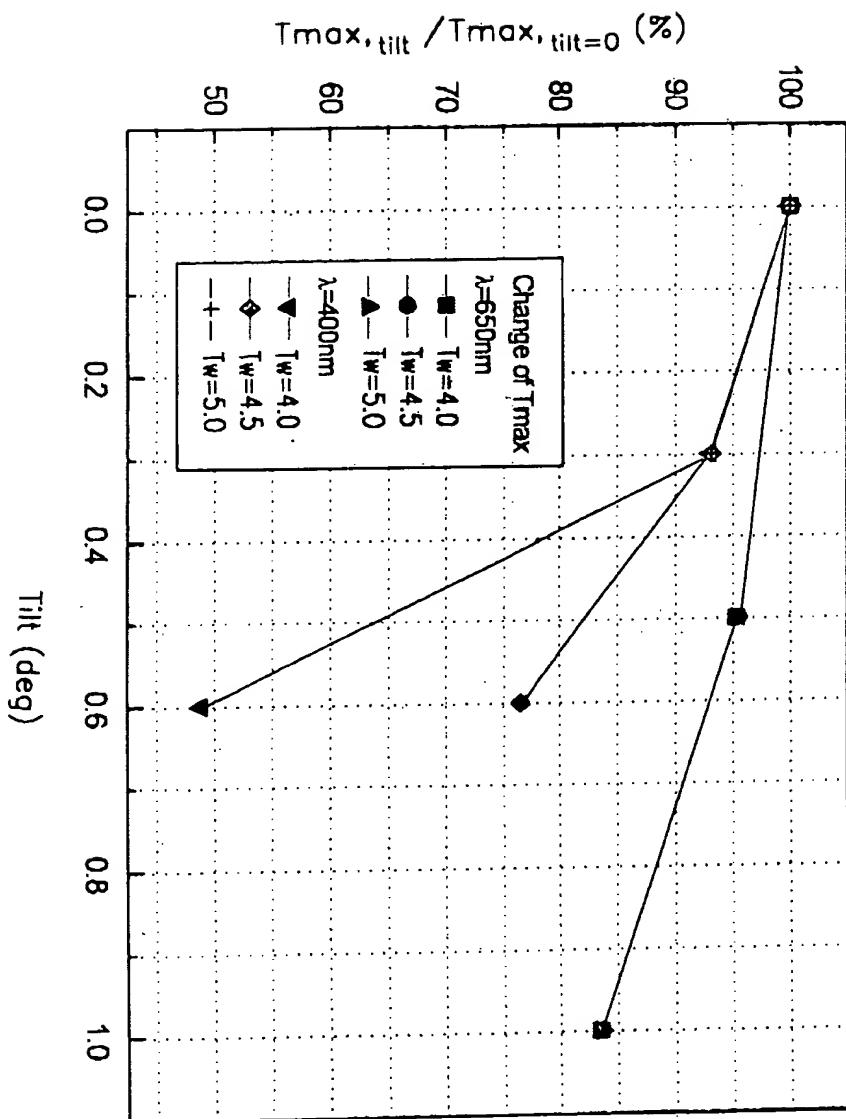
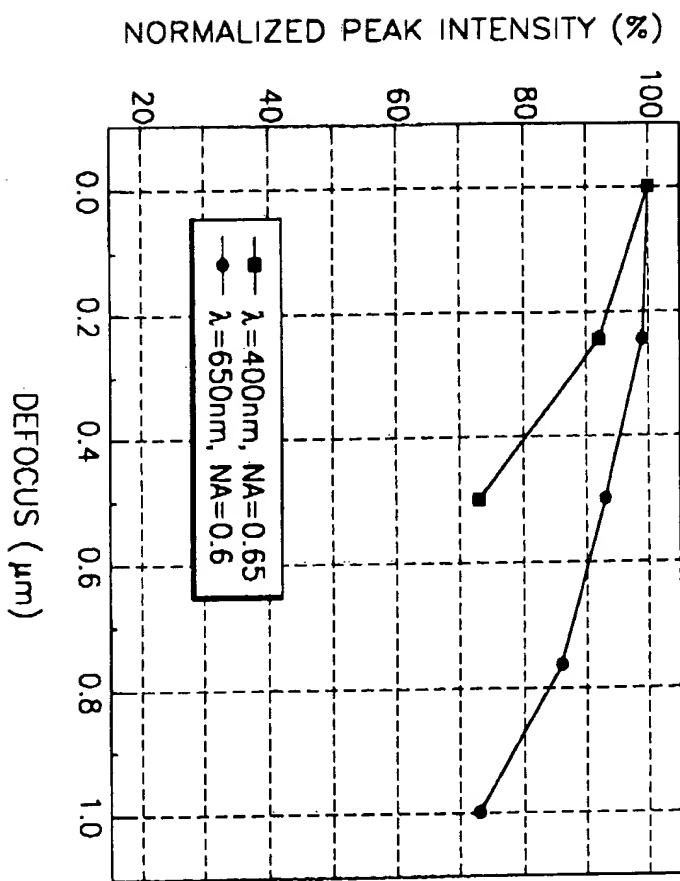


FIG. 6 (PRIOR ART)



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FIG. 7 (PRIOR ART)

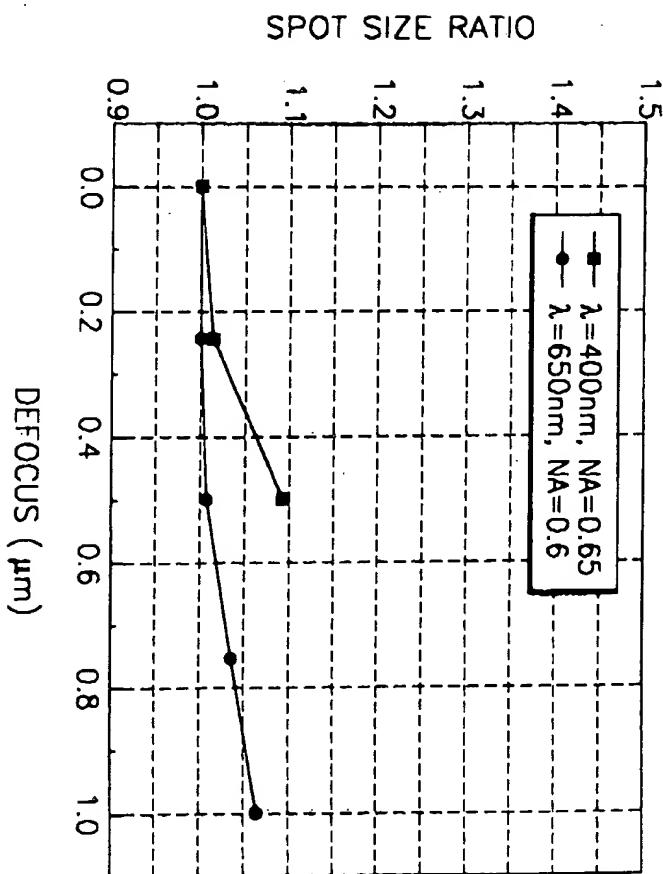
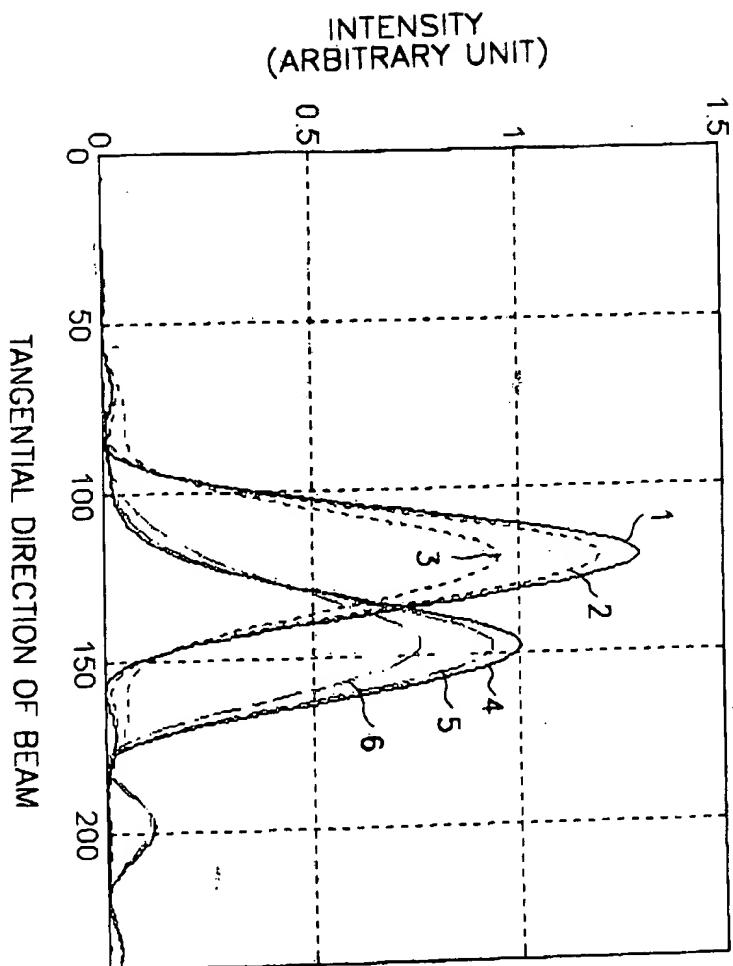
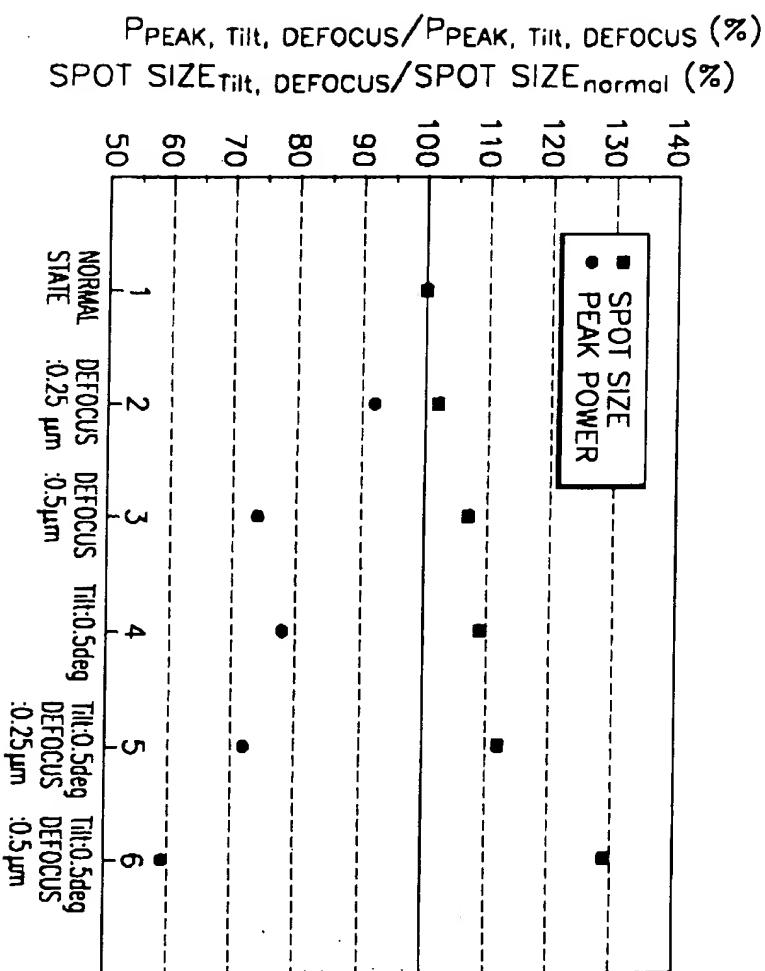


FIG. 8 (PRIOR ART)



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FIG. 9 (PRIOR ART)



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FIG. 10

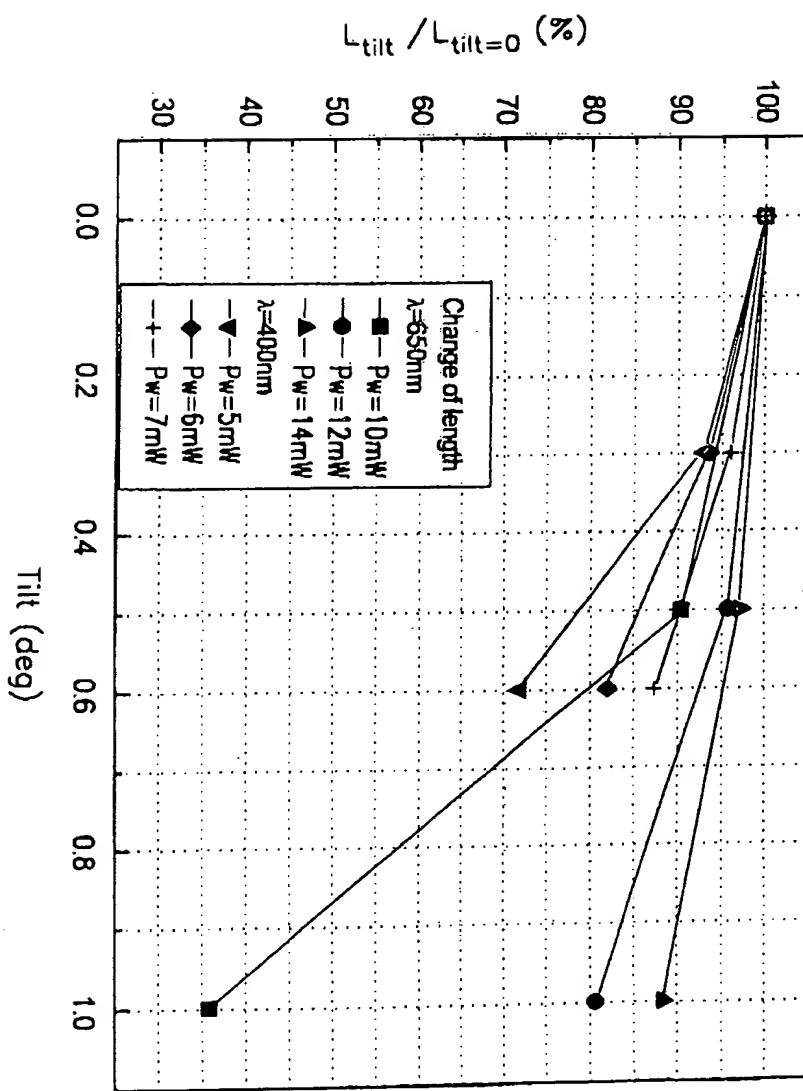


FIG. 11

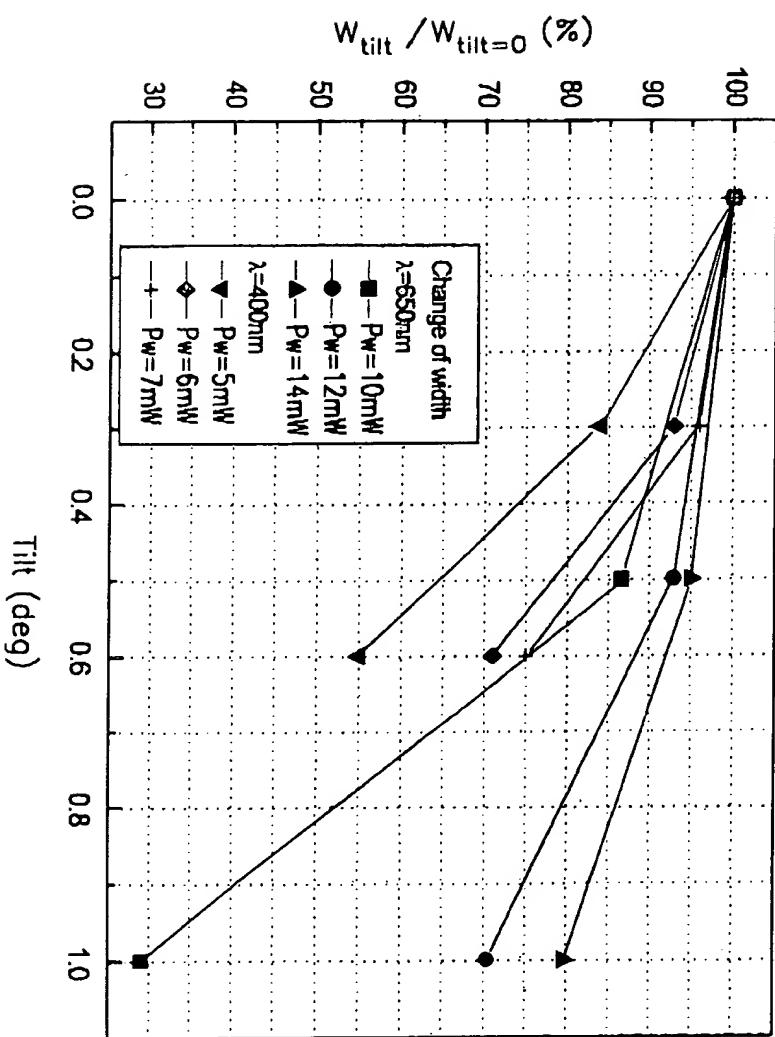


FIG. 12A

| Pw (mW) | Tilt (deg) | Tmax (C) | L (nm) | W (nm) |
|------------|---------------|-------------|-----------|-----------|
| 10 | 0 | 754.6 | 755.5 | 345.2 |
| | 0.5 | 720.0 | 682.9 | 298.7 |
| | 1.0 | 630.7 | 248.6 | 96.3 |
| 12 | 0 | 901.9 | 926.6 | 484.1 |
| | 0.5 | 860.7 | 887.5 | 450.0 |
| | 1.0 | 753.9 | 747.3 | 340.5 |
| 14 | 0 | 1048.9 | 1026.5 | 577.9 |
| | 0.5 | 1000.7 | 997.7 | 548.7 |
| | 1.0 | 876.6 | 907.1 | 459.8 |

FIG. 12B

| Pw (mW) | Tilt (deg) | Tmax (C) | L (nm) | W (nm) |
|------------|---------------|-------------|-----------|-----------|
| 5 | 0 | 834.0 | 518.1 | 277.9 |
| | 0.3 | 778.1 | 493.8 | 240.9 |
| | 0.6 | 648.7 | 381.0 | 156.6 |
| 6 | 0 | 987.1 | 575.8 | 325.6 |
| | 0.3 | 919.2 | 551.3 | 310.6 |
| | 0.6 | 755.3 | 479.9 | 238.1 |
| 7 | 0 | 1141.9 | 615.0 | 368.6 |
| | 0.3 | 1062.2 | 590.7 | 356.0 |
| | 0.6 | 867.9 | 537.3 | 282.2 |

FIG. 13

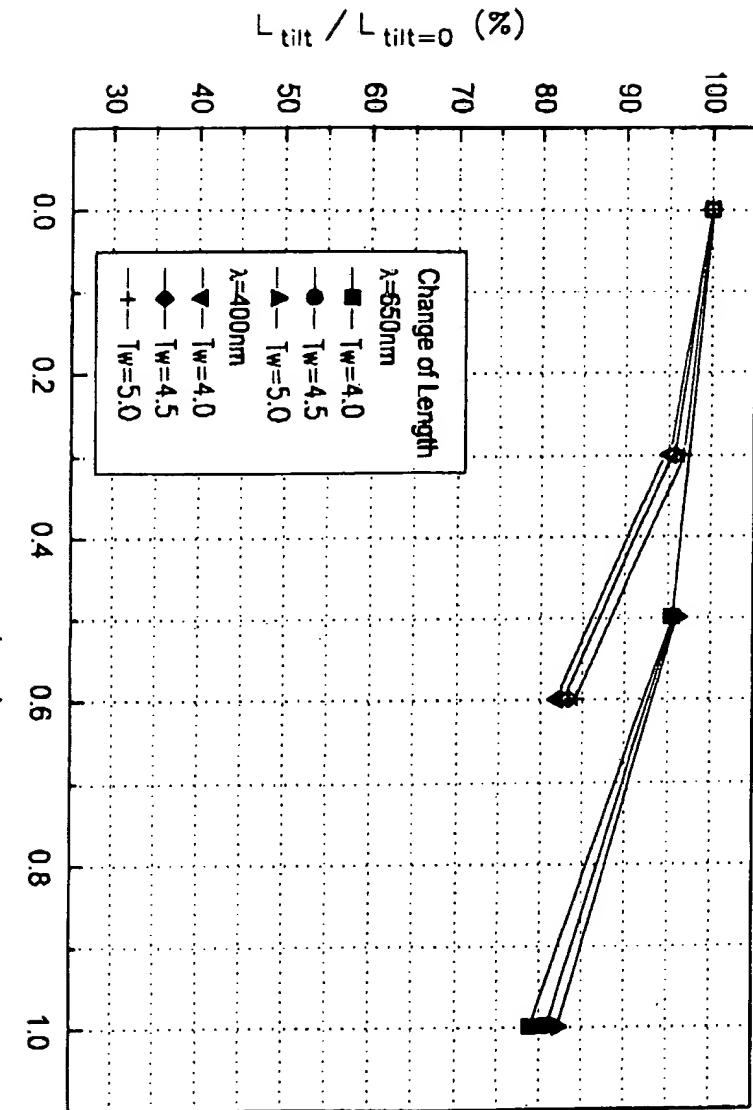


FIG. 14

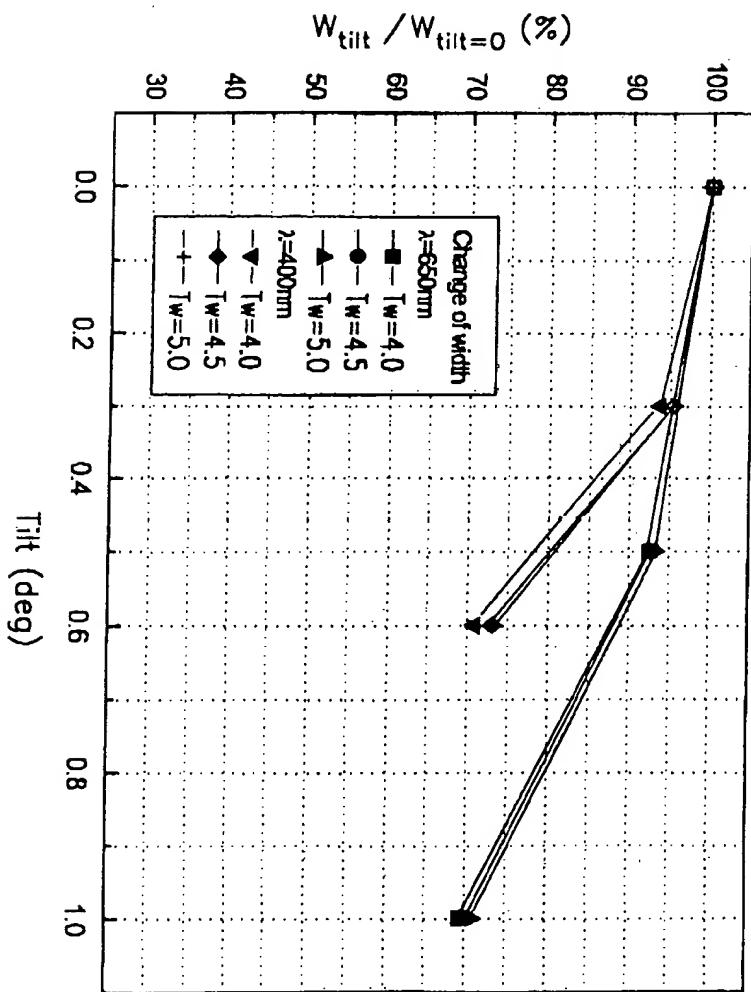


FIG. 15A

| Pw (mW) | Tilt (deg) | Tmax (C) | L (nm) | W (nm) |
|------------|---------------|-------------|-----------|-----------|
| 4Tw | 0 | 895.8 | 853.8 | 477.1 |
| | 0.5 | 853.8 | 814.5 | 441.6 |
| | 1.0 | 747.6 | 673.2 | 330.6 |
| 4.5Tw | 0 | 901.9 | 926.6 | 484.1 |
| | 0.5 | 860.7 | 887.5 | 450.0 |
| | 1.0 | 753.9 | 747.3 | 340.5 |
| 5Tw | 0 | 908.7 | 998.2 | 490.3 |
| | 0.5 | 866.2 | 959.1 | 456.8 |
| | 1.0 | 759.5 | 820.1 | 347.3 |

FIG. 15B

| Pw (mW) | Tilt (deg) | Tmax (C) | L (nm) | W (nm) |
|------------|---------------|-------------|-----------|-----------|
| 4Tw | 0 | 980.6 | 538.2 | 323.8 |
| | 0.5 | 912.0 | 512.0 | 303.4 |
| | 1.0 | 748.9 | 441.0 | 229.5 |
| 4.5Tw | 0 | 987.1 | 575.8 | 325.6 |
| | 0.5 | 919.2 | 551.3 | 310.6 |
| | 1.0 | 755.3 | 479.9 | 238.1 |
| 5Tw | 0 | 993.3 | 612.3 | 329.0 |
| | 0.5 | 925.2 | 592.7 | 315.2 |
| | 1.0 | 760.1 | 516.3 | 241.2 |

FIG. 16

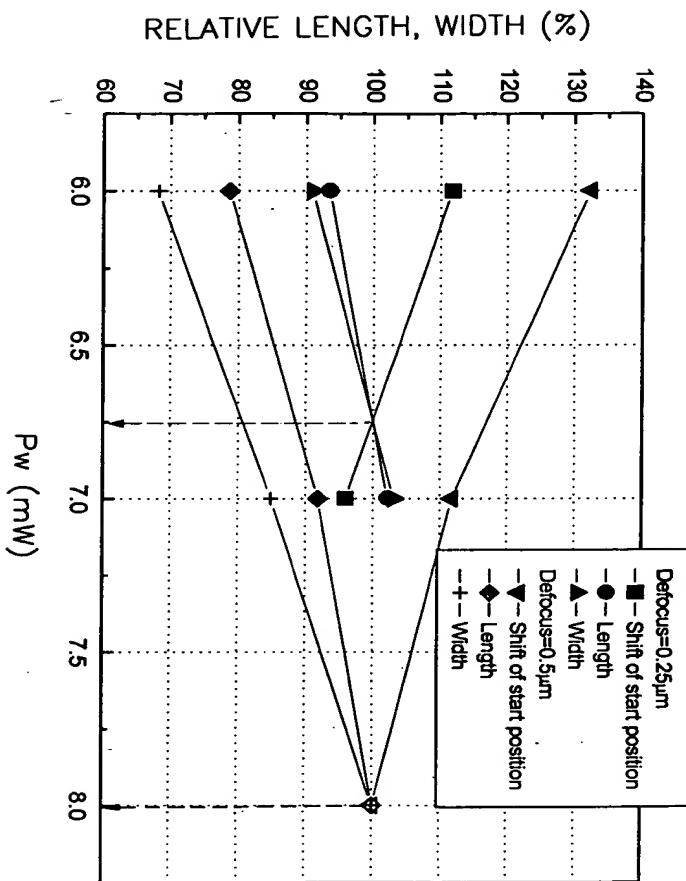


FIG. 17

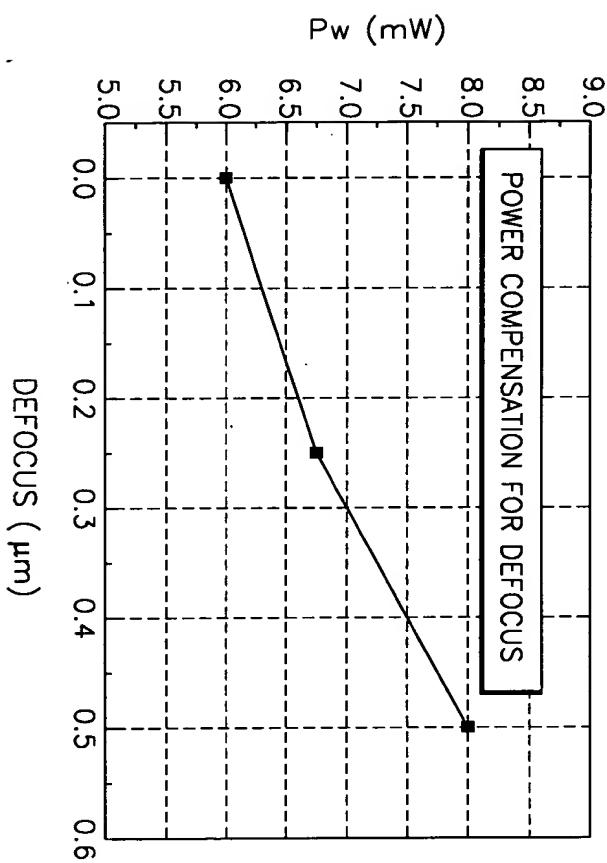


FIG. 18

| Pw \ Tilt | 0° | 0.5° | 0.5°+0.25μm DEFOCUS |
|-----------|-----------------------------|-------|------------------------|
| 6mW | SHIFT OF RECORDING POSITION | 0 | 0.293 |
| | LENGTH | 0.515 | 0.439 |
| | WIDTH | 0.231 | 0.174 |
| 7mW | SHIFT OF RECORDING POSITION | | |
| | LENGTH | 0.262 | 0.262 |
| | WIDTH | 0.496 | 0.496 |
| 8mW | SHIFT OF RECORDING POSITION | | |
| | LENGTH | 0.214 | 0.214 |
| | WIDTH | 0.535 | 0.090 |
| 9mW | SHIFT OF RECORDING POSITION | | |
| | LENGTH | 0.242 | 0.051 |
| | WIDTH | 0.700 | 0.372 |

FIG. 19

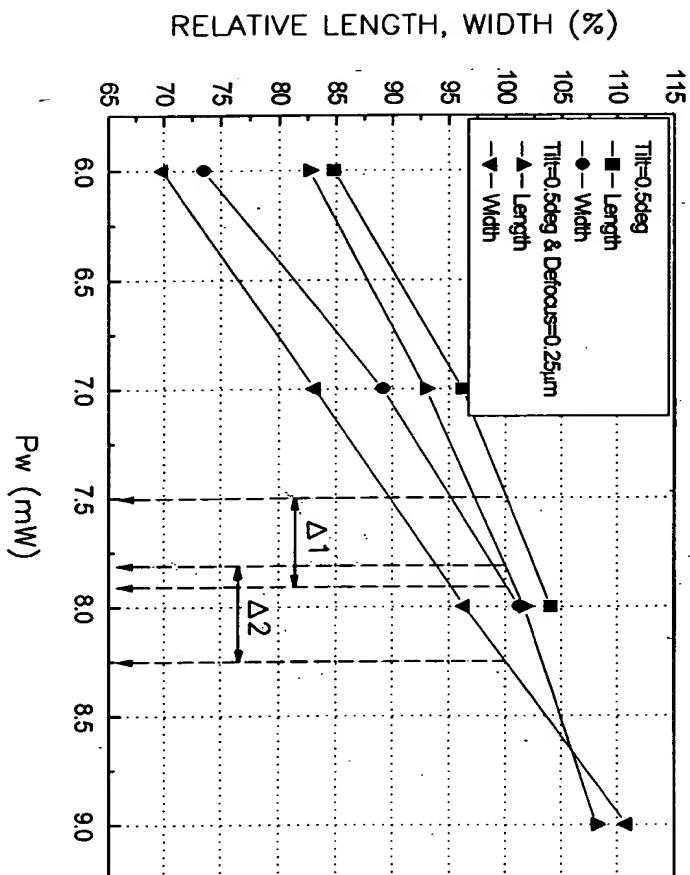
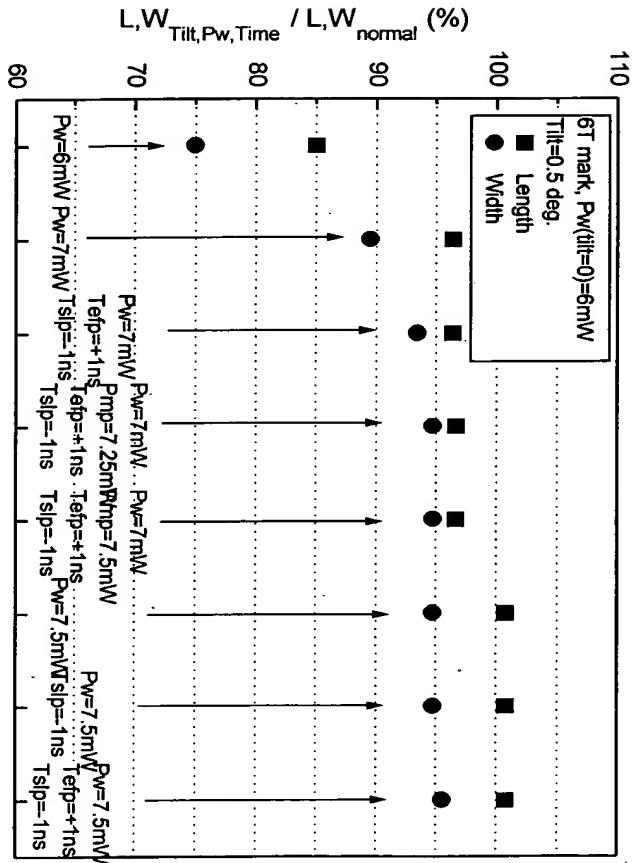


FIG. 20



VARIATION OF POWER & TIME

FIG. 21A

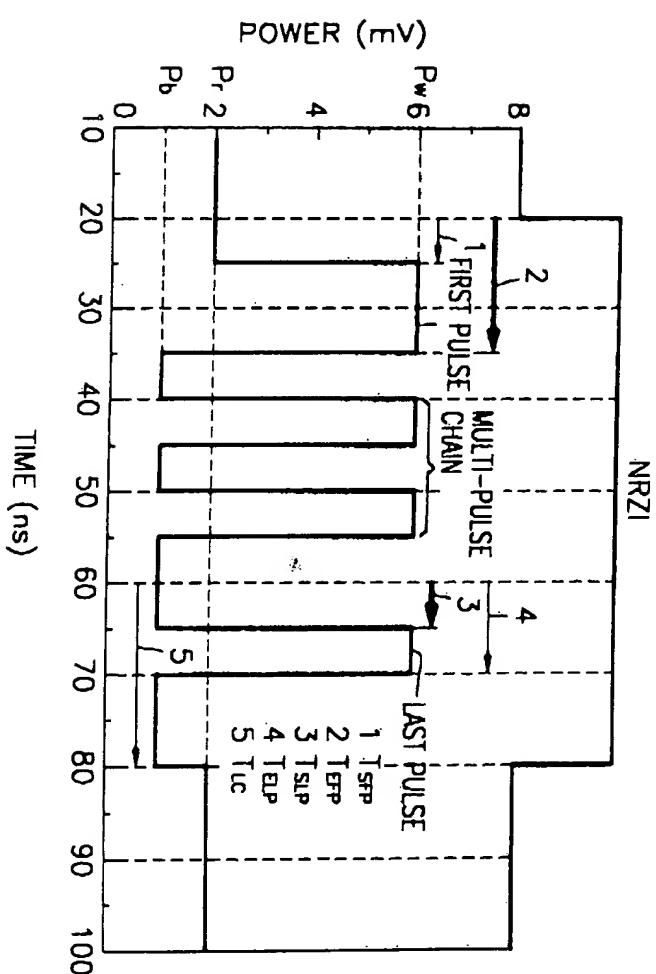


FIG. 21B

FIG. 22

| Pw | MEASURED ITEM | Tilt | 0° | 0.5° | 1.0° |
|-----|-----------------------------|-----------------------------|-------|-----------|-------|
| | | SHIFT OF RECORDING POSITION | 0 | 0.293 | 0.439 |
| 6mW | LENGTH | 0.515 | 0.439 | NO RECORD | |
| | WIDTH | 0.231 | 0.174 | | |
| | SHIFT OF RECORDING POSITION | 0.262 | 0.214 | | |
| 7mW | LENGTH | 0.496 | 0.496 | | |
| | WIDTH | 0.214 | 0.245 | | |
| | SHIFT OF RECORDING POSITION | 0.704 | 0.535 | | |
| 8mW | LENGTH | 0.090 | 0.242 | | |
| | WIDTH | 0.051 | 0.700 | | |
| | SHIFT OF RECORDING POSITION | 0.372 | 0.107 | | |
| 9mW | LENGTH | | | | |
| | WIDTH | | | | |

FIG. 23

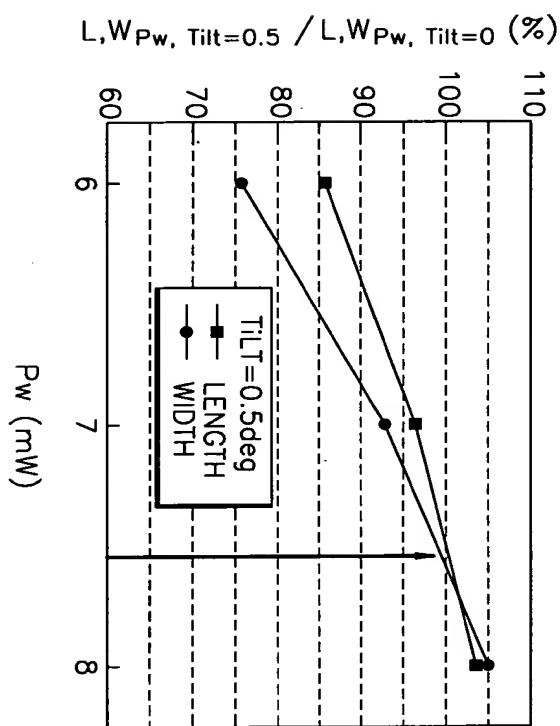
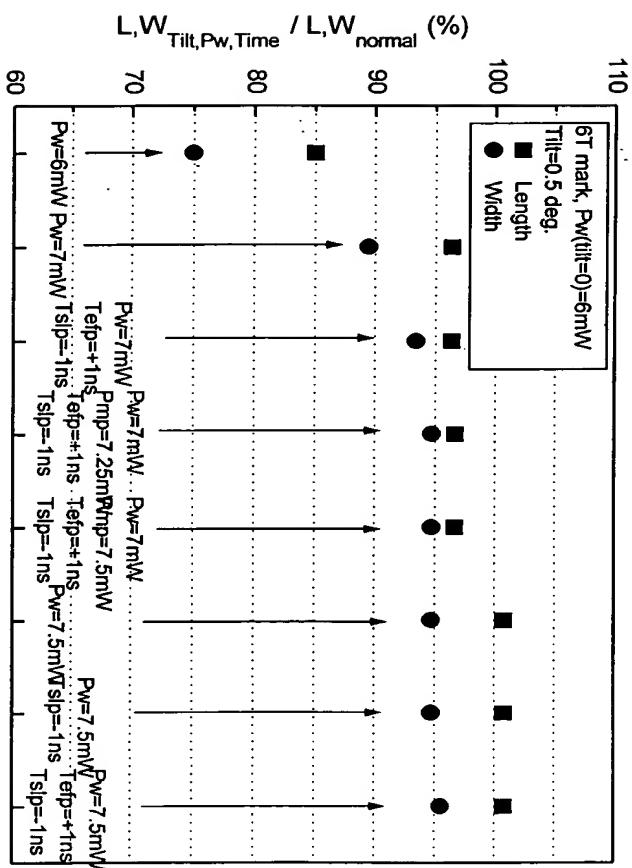


FIG. 24



VARIATION OF POWER & TIME

FIG. 25

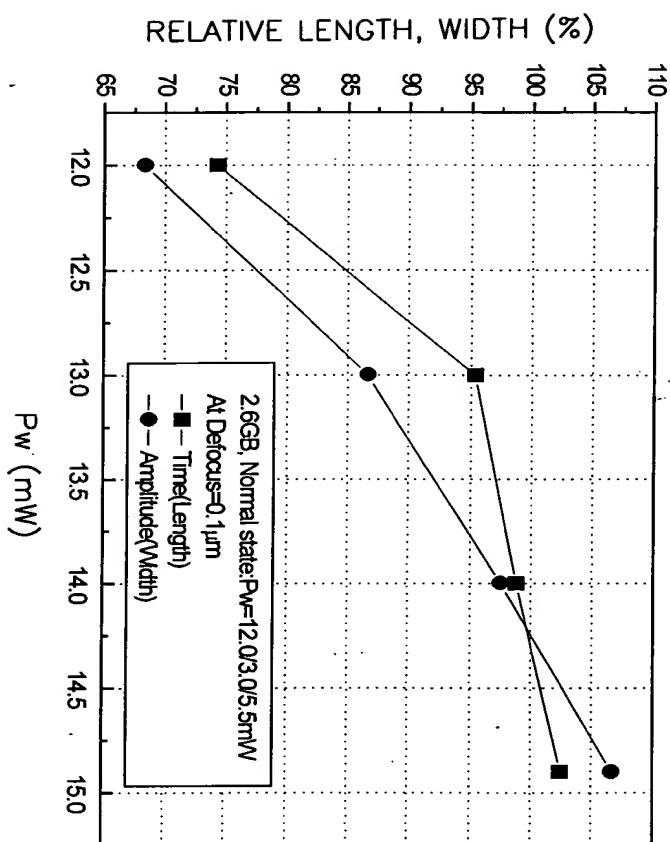


FIG. 26

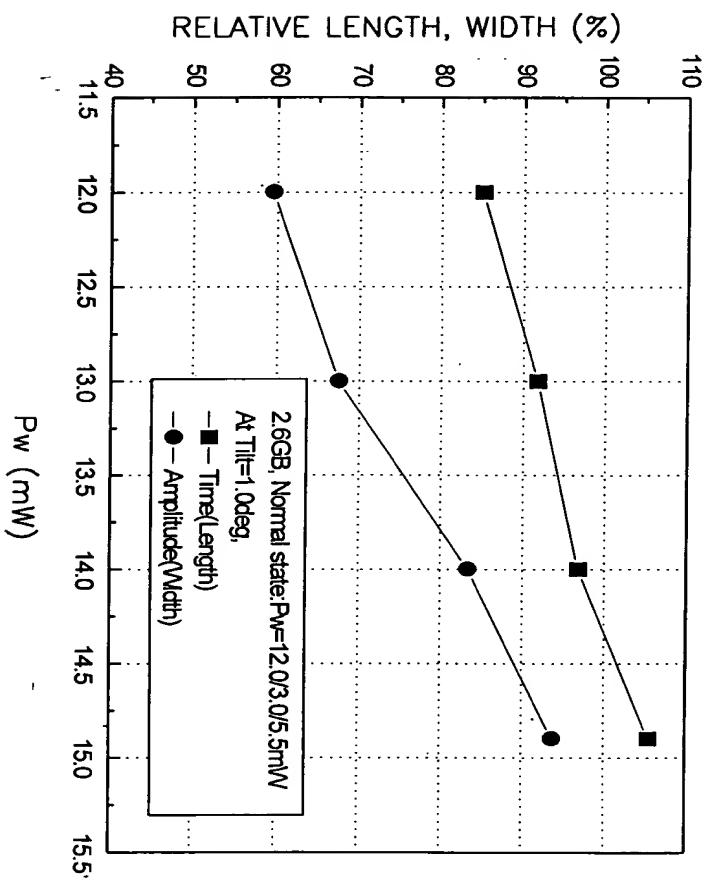


FIG. 27

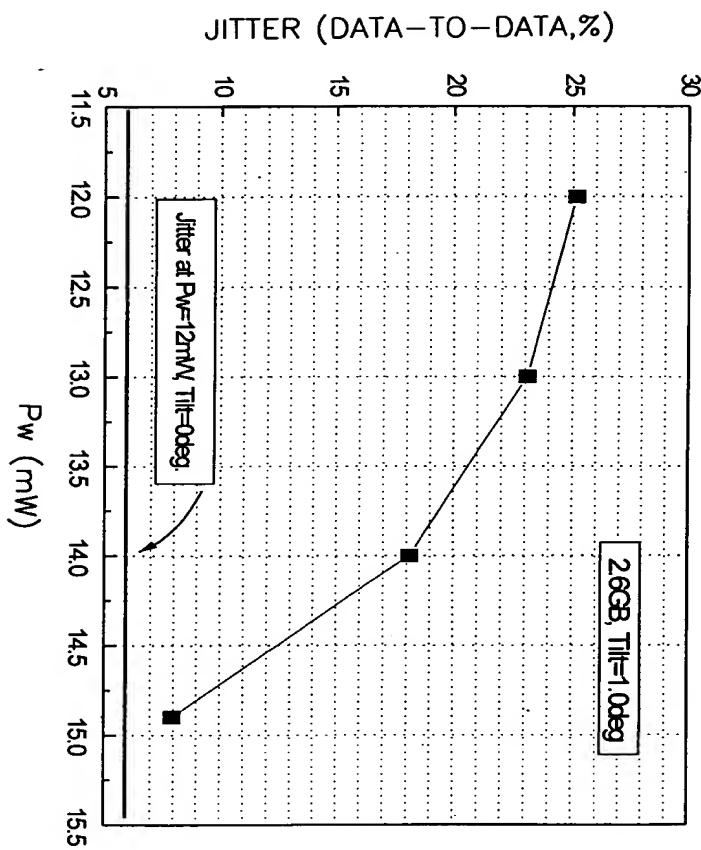
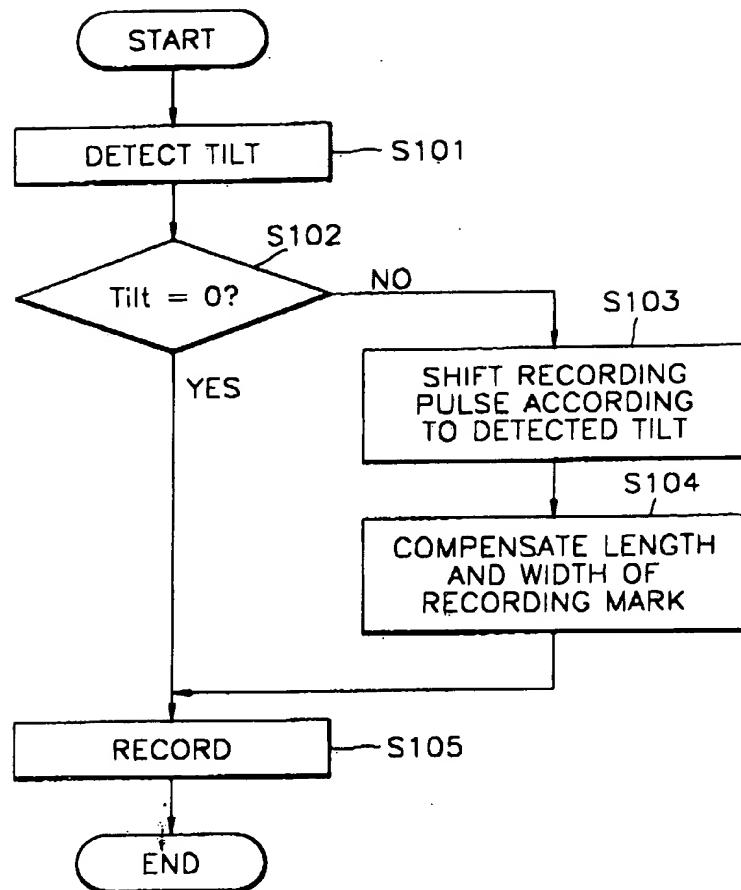
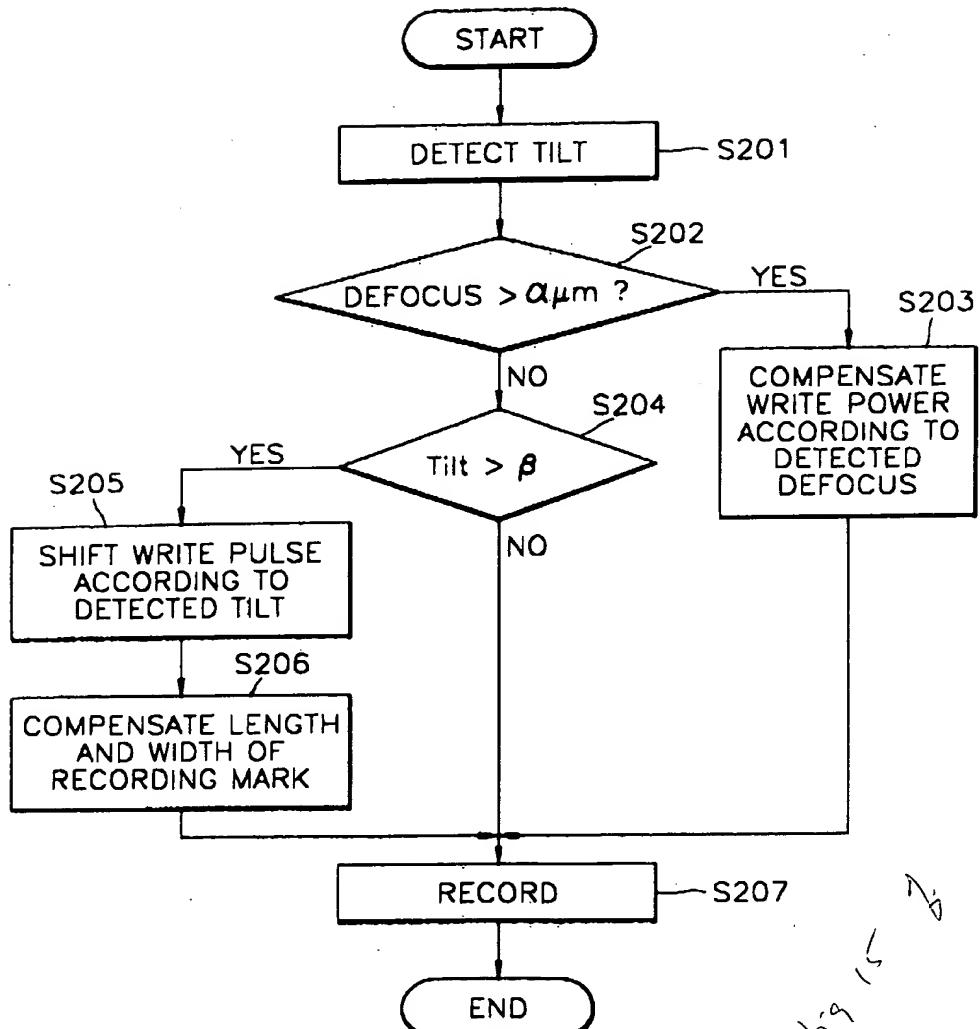


FIG. 28



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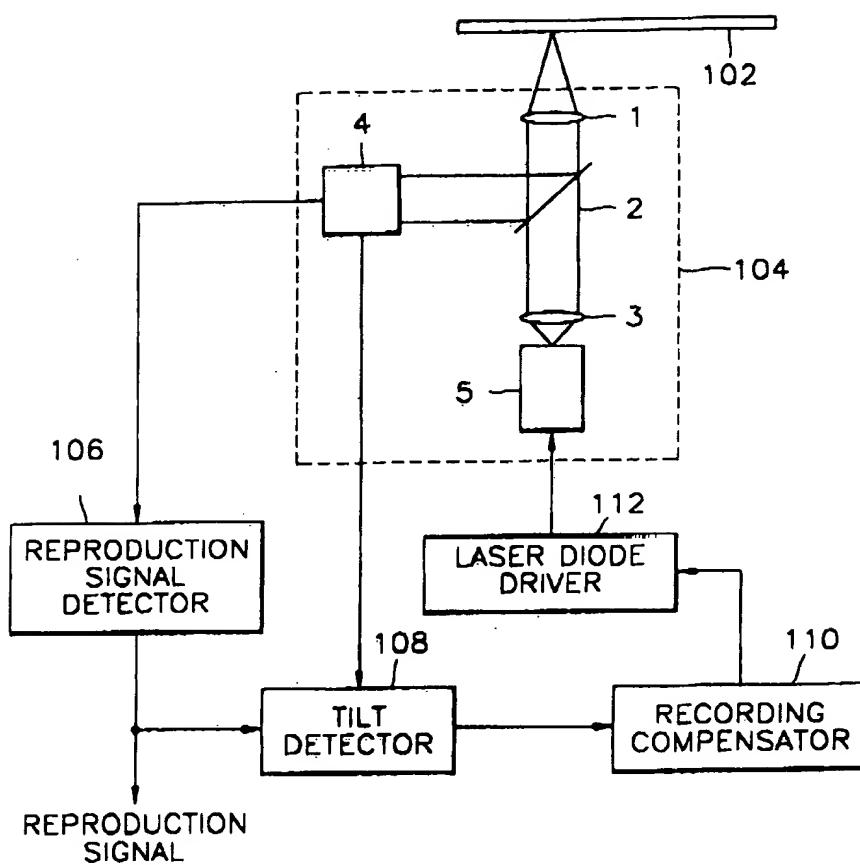
FIG. 29



00000000 = 1002E08160

11
tilt
aa - 38 399

FIG. 30



000290 - MODE 000

FIG. 31

